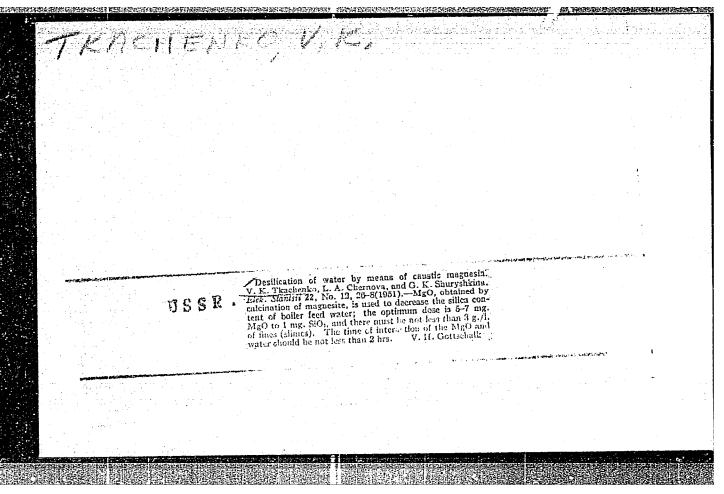
KONTOROVICH, I.Ye., doktor tekhn. nauk; KOLESNIKOV, A.P., inzh.;

TAMARINA, A.M., inzh.; TKACHENKO, V.I., inzh.; TSERLYUK, M.D., inzh.

Increasing engineering properties of steel castings at low temperatures. Stroi. i dor. mash. 10 no.4:32-33 Ap '65.

(MIRA 18:5)



Vasilii Dmitrievich Shervinskii. Vrach.delo no.3:323-324 Mr
'60.

(SHERVINSKII, VASILII DMITRIEVICH, 1850-1941)

(MIRA 13:6)

S/137/60/000/009/005/029

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 9, r. 109 AUTHORS:

Kirillov, B.S., Gorenshteyn, M.M., Goltvenko, A.I., Tkachenko, V.K. TITLE:

Calculation of the Multi-Purpose Spindle of a Rolling Mill PERIODICAL:

SHAKITE

Sb. nauchn. tr. Zhdanovsk. metallurg. in-t, 1960, No. 5, pp. 372-TEXT:

A comparison is made of the existing methods for calculating multipurpose spindles of a rolling mill. The magnitudes of error when using one or the other method were revealed. As a result of the study it was established that the discrepancy between the theoretical calculations of a spindle fork and experimental data is explained by the inaccurate accounting for the twisting stress, A.I. Tselikov recommends to use the method of the strength of materials aprlied to the given case when calculating bore rolls. When calculating the blades of a roll. new coefficients are introduced which can be used as a basis of approximate cal-

Translator's note: This is the full translation of the original Russian abstract.

PESHKOV, V.P.; TKACHENKO, V.K.

Kinetics of the disturbance of superfluidity in helium. Zhur.
eksp. i teor. fiz. 41 no.5:1427-1432 N '61. (MIRA 14:12)

1. Institut fizicheskikh problem AN SSSR.
(Superfluidity) (Holium)

TKACHENKO, V.K.

Vortex lattices. Zhur.eksp. i teor.fiz. 49 no.6;1875-1823
D '65.

(MINA 19:1)

1. Submitted July 2, 1965.

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 75 (USSR) SOV/137-58-11-22369 AUTHORS:

Kirillov, B. S., Gorenshteyn, M. M., Tkachenko, V. K., Goltvenko, A. I. TITLE:

An Investigation of Dynamic Processes in the Live Train of an 1170 Blooming Mill Under More Severe Conditions of Rolling (Issledovaniye

dinamicheskikh protsessov v rabochey linii blyuminga 1170 pri uzhestochennem rezhime prokatki)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958,

ABSTRACT: An investigation is made of dynamic processes in the live train of a blooming mill (B) by comparing regimes for rolling 6.9-t steel ingots in 13 and 11 passes. The results serve as reference material for dynamic stress analyses relating the more intensive B rolling operations. The analytical and experimental investigations include derivation of the magnitudes of the static, motive, and dynamic moments at different phases of the passage of the metal (Me) through the rolls. The static and motive moments in the period of Me contact

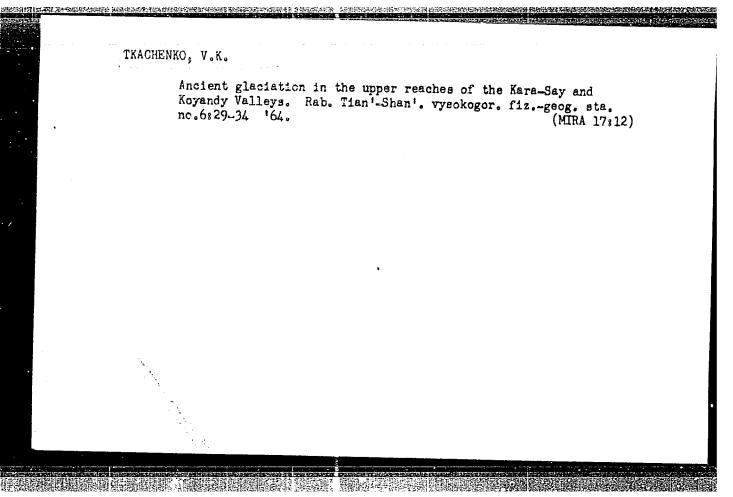
display a linear change and may be deemed constant when a steady-Card 1/2 state process is in progress. The dynamic moments are investigated

An Investigation of Dynamic Processes in the Live Train (cont.)

by means of the equation for the moment of the elastic forces of the spindle induced by the inertia of the flywheel masses in the live train of the mill during the contact phase and the steady rolling process. The effect of the law governing the increase in and the value of the moment of resistance during contact upon change in the dynamics of the process is demonstrated. Dynamic phenomena are virtually equal upon rolling in 13 and in 11 passes. The fluctuations in the torque moments induced by the elasticity of the system do not exceed 3% of the static load.

V. I.

Card 2/2



GORENSHTEYN, M.M., kand.tekhn.nauk; KIRILLOV, B.S., kand.tekhn.nauk;

TKACHENKO, V.K., inzh.; GOLTVENKO, A.I., inzh.; POGORZHEL'SKIY,

V.I., inzh.; BARAHETS, P.D., inzh.; YASHCHENKO, Z.A., inzh.;

FIL'CHAKOVA, V.A., inzh.

2006年1月1日 - 1908年1月1日 - 1908年1日 - 1

Establishing the most satisfactory conditions for rolling on blooming mills with increased load on the main driving motor. Izv. vys. ucheb. zav.; chern. met. no.3:91-101 Mr '58.

(MIRA 11:5)

1. Zhdanovskiy metallurgicheskiy institut i zavod "Azovstal".

(Rolling mills-Electric driving)

Simplified scheme for demineralization of water. Teploenergetika 4 no.9:51-54 S '57. (KIEA 10:8)

1. Moskovskoye rayonnoye upravleniye energokhozysystva. (Feed-water purification)

I-11

TKACHENKO, V.K.

USSR/Chemical Technology - Chemical Products and Their

Application. Water treatment. Sewage water.

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12729

Author : Tkachenko V.K.

Inst : Moscow Power Installations

: Experience with Operation of Dual-Flow Mechanical Filters Title

: Inform. materialy Mosenergo, 1955, No 8, 53-55 Orig Pub

: Description of changes in design which have been made in Abstract

standard clarifying filters of the pressure type (diameter 3 meters) in order to operate them according to a system of dual-flow filtration. Operation with non-coagulated water has revealed the possibility of increasing the output capacity of the filters by 2 times and that of mud holding capacity by 3-4 times. The filters were washed with unfiltered water. During the period of high waters, on operation with non-congulated water the out-

put of each filter was decreased, down to 10 m3/hour,

Card 1/2 - 155 -

USSR/Chemical Technology - Chemical Products and Their Application. Water Treatment, Sewage Water.

I-11

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 12729

while on resorting to coaquiation it rose to 50-60 m<sup>3</sup>/hour.

Card 2/2

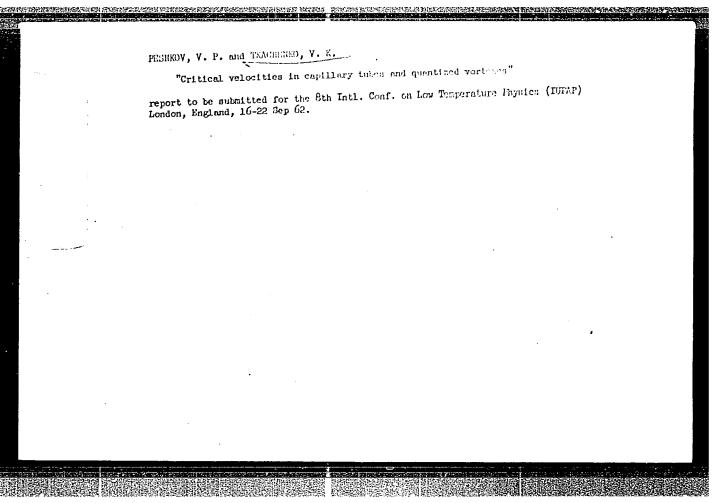
- 156 -

TRACHERMO, V. X., Eng.

Plastering

Hozzle for plastering surfaces with lime solution with dry gypours. siul. stroi. tekh. 10, No. 5, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unel.



RYABTSEV, L.N.; KARPETA, D.I.; MOREV, I.I.; RAYEV, Yu.O.; KLOKOV, P.V.; ZHEMBUS, M.D.; YEVSEYEV, A.M.; TKACHENKO, V.K.

والمدلك جممة

Young blast furnace operators are exchanging work practices. Metallurg no.12:7-10 D '56. (MIRA 10:1)

1. Master domennoy pechi no.7 Magnitogorskogo metallurgicheskogo kombinata (for Ryabtsev). 2. Master domennoy pechi no.7 Magnitogorskogo metallurgicheskogo kombinata (for Karpeta). 3. Master Magnitogorskogo metallurgicheskogo kombinata (for Morev). 4. Pomoshchnik mastera Kuznetskogo metallurgicheskogo kombinata (for Rayev). 5. Master metallurgicheskogo zavoda imeni Serova (for Klokov). 6. Master metallurgicheskogo zavoda imeni Petrovskogo (for Zhembus). 7. Master Chusovskogo metallurgicheskogo zavoda (for Tevseyev). 8. Master Makeyevskogo metallurgicheskogo zavoda (for Tevseyev). 8. Master Makeyevskogo metallurgicheskogo zavoda (for Tkachenko).

(Magnitogorsk--Blast furnaces)

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Gasifier for obtaining pressures up to 100 atmospheres by means of liquid helium. Prib.i tekh.eksp. 6 no.5:203-204 S- '61. (MTRA 14:10)

1. Institut fizicheskikh problem AN SSSR. (High-pressure research-Equipment and supplies)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

26697 5/056/61/041/005/012/038 B109/B102

24.5600

AUTHORS:

Peshkov, V. P., Tkachenko, V. K.

TITLE:

Kinetics of the destruction of superfluidity in helium

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 5(11), 1961, 1427 - 1432

TEXT: In continuation of studies carried out by P. L. Kapitsa (ZhETF, 11, 581, 1941), L. D. Landau (ZhETF, 11, 591, 1941) and at the Institut fizicheskikh problem (Institute of Physical Problems) by V. Markov and Tkachenko, the authors investigated the heat transfer along a capillary tube. The measuring arrangement in essential consisted of a spiral capillary tube of 1.4 mm diameter and 8 m length, placed in a vacuum container of 70 mm diameter and 170 mm length. The upper end of the capillary tube was connected to a helium vessel, the lower was surrounded by a heater coil. 12 phosphor-bronze thermometers  $(R_1)$  with a measuring current of 0.2 ma are mounted on the capillary tube. For T = 1.34°K and a heat flux of W =  $4.4 \cdot 10^{-2}$  w/cm<sup>2</sup> = 1.19 W<sub>crit</sub>, Fig. 3 renders the time

Card 1/4

26697 \$/056/61/041/005/012/038 B109/B102

Kinetics of the destruction...

dependence of the thermometer temperature. Between 1.3 - 1.40K the thermometer resistance was N15 = 20 ohms. It was found that a turbulence front moves with constant velocity  $v_T = 2.2 \pm 0.1$  mm/sec from the heated end to the cold end of the tube. This front increases the thermal resistance of the helium. On the other hand, a front with the constant velocity  $v_{\chi}$  = 1 ± 0.03 mm/sec propagates from the cold end of the tube. Fig. 4 shows the velocity of the fronts as functions of the heat flux densities at T = 1.34°K. For  $W_{crit} = 3.7 \cdot 10^{-2} \pm 0.1 \cdot 10^{-2}$  which the authors estimate to occur at  $v_n = 1.85$  cm/sec and  $v_s = 0.114$  cm/sec,  $v_T$ and  $v_{_{\mathbf{X}}}$  practically turn zero. Pretreatment of the helium has a considerable effect upon the turbulence. Turbulence occurs at the ends of the capillary tube but may arise also inside the tube at a subcritical heat flux if the settling time of the helium before the application of the heat flux was too short. A. N. Vetchinkin (PTE, 1, 192, 1961) is mentioned. There are 8 figures and 10 references: 4 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as

Card 2/4

26697 S/056/61/041/005/C12/038 B109/B102

Kinetics of the destruction...

follows: L. Onsager. Nuovo Cim., <u>6</u>, Suppl., 2, 249, 1949; W. F. Vinen. Proc. Roy. Soc., <u>A240</u>, 114, 128, 1957; R. P. Feynman. Progr. in low temp. phys., <u>1</u>, Amsterdam, 1955; K. R. Atkins. Liquid helium, Cambridge, 1959.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute for Physical Problems of the Academy of Sciences USSR)

SUBMITTED: June 7, 1961

Card 3/4

TKACHENKO, V.K.

Development of turbulence during heat flow in Helium II in a capillary tube, and the critical velocity problem. Zhur. eksp. i teor. fiz. 45 no.6:1827-1834 D '63. (MIRA 17:2)

1. Institut fizicheskikh problem AN SSSR.

ACCESSION NR: AP4009102

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s/0056/63/045/006/1827/1834

AUTHOR: Tkachenko, V. K.

TITLE: Development of turbulence during heat flow of He II in a capillary tube and the critical velocity problem

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1827-1834

TOPIC TAGS: Helium II, superfluidity, vortex formation, Feynman-Onsager vortex, quantum liquid, superfluid turbulence flow, critical flow velocity

ABSTRACT: In a paper by V. P. Peshkov and the author (ZhETF, v. 41, 1427, 1961) it was shown that the laminar flow of the normal component can interact with the vortical flow of the superfluid component and this type of heat transport flow is such that the boundary separating the two regions (the superfluid turbulence front) moves and

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its velocity depends on the critical flow velocity. To check the nature of this critical velocity measurements on helium II in capillary tubes 0.4 and 1.3 mm in diameter at different temperatures. Turbulence fronts were observed at temperatures 0.8--1.5K. The experiment and the apparatus were analogous to those in the cited paper by Peshkov and the author. The various experiments have shown that laminar flow is possible at velocities exceeding what it is customarily defined as critical. A typical variation of the hot and cold fronts with the heat flow is shown in the figure and it is argued that the critical heat flow should be defined as the one for which the velocity of the cold front is equal to zero. Some theoretical estimates for the value of the critical velocity and for the factors causing turbulence in the liquid are presented. "The author is grateful to Prof. V. P. Peshkov for suggesting the problem and for numerous discussions concerning both the experimental data and the conclusions. He also thanks Prof. I. M. Khalatnikov and Prof. L. A. Vaynshtevn whose comments helped clarify a

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

ACCESSION NR: AP4009102

number of theoretical problems." Orig. art. has: 10 figures and 6

ASSOCIATION: Institut fizicheskikh problem AN SSSR (Institute of Physics Problems AN SSSR)

SUBMITTED: 18Jun63 DATE ACQ: 02Feb64

ENCL: 01

SUB CODE: PH

NO REF SOV: 003

OTHER: 009

UR/0056/66/050/006/15 IJP(c) EWT(m)/T/EWP(t)/ETI SOURCE CODE: ORG: Institute of Solid State Physics, Academy of Sciences, SSSR (Institut fiziki B I. 41740-66 ACC NR: AP6020213 AUTHOR: Tkachenko, V. K. tverdogo tela Akademii nauk SSSR) SOURCE: Zh eksper i teor fiz, v. 50, no. 6, 1966, 1573-1585 TOPIC TAGS: vortex, lattice, quantum liquid, liquid helium, motion stability, super-ABSTRACT: In view of the revival of interest in discrete vortices in ideal liquids, and similar phenomenestic in connection with liquid helium screw dislocations, and similar phenomenestic in connection with liquid helium screw dislocations of simple vortex especially in connection with liquid helium screw dislocations of simple vortex especially in connection with helium screw of small perturbations of simple vortex especially in connection with helium screw the helium screw of small perturbations of simple vortex. especially in connection with liquid nerium, screw dislocations, and similar phenor ena, the author investigates the behavior of small perturbations of simple vortex lattices in helium and their effect on the stability of the liquid. The problem is transformed to two-dimensional form and reduces to a study of the stability of rotation of the stabilit tion of a system of vortices as a unit. To avoid difficulties connected with the tion of a system of vortices as a unit. To avoid difficulties connected with the energy remaining of the energy remaining the system, but in connection with the question whether a sufficiently small perthe equations of motion it is deduced that a triangular lettice grant and a sufficiently small perthe equations of motion it is deduced that a triangular lattice over a near-triangular lattice over a stable. tne equations or motion it is deduced that a triangular lattice over a near-triangular lattice vibrations is deter-lattice remains stable. The law of dispersion for the lattice vibrations is deter-mined, and the form of the normal vibrations is calculated. In the long-wave limit 1/2 Card

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ACC NR: AP6020213

these vibrations recall sound vibrations in crystals. The long-wave oscillations are not determined by the density of the vortices, but depend on the structure of the lattice and are anisotropic in all but triangular lattices. Lattices other than triangular are absolutely unstable. The experimental feasibility of observation of that the results are applicable not discussed. It is pointed out in conclusion sion law for a plane lattice with a screened Coulomb interaction. In the case of necessity the methods developed in the article can be used to investigate complex out the feasibility of the calculations and L. P. Pitayevskiy for interest in the superconductivity and superfluidity, and the author is extremely grateful to their SUB CODE: 20/

SUB CODE: 20/ SUBM DATE: 04Jan66/ ORIG REF: 015/ OTH REF: 003

Card 2/2

- 1. TKACHENKO, VL.
- 2. USSR (600)
- 4. Danube-Black Sea Canal
- 7. Canal lifeline. Vokrug sveta no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

ANDREYEV, N.K.; BLYUDZE, Yu.G.; DOKUCHAYEV, O.N.; PETROVSKY, V.S.; SMOLYAKOV, A.V.; TKACHENKO, V.M. (Leningrad)

"Study of the main properties of pseudo-sound sources of turbulent noise".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

ACC NR: AP6033855

(N)

SOURCE CODE: UR/0281/66/000/004/0076/0086

AUTHOR: Levitov, V. I. (Moscow); Tkachenko, V. M. (Moscow)

ORG: none

TITLE: Effect of corona discharge electrode shape on drift velocity of aerosol parti-

cles in an electrostatic precipitator

SOURCE: AN SSSR. Izvestiya. Energetika i transport, >. 4, 1966, 76-80

TOPIC TAGS: electrostatic precipitation, aerosol, corona discharge

ASSTRACT: A method is presented for the stroboscopic photographic investigation of trajectories and drift velocities of aerosol particles, as applied to conditions of corona discharge in electrostatic precipitators. The investigations were carried out using an electrostatic precipitator model consisting of two plane precipitating electrodes and one corona discharge electrode placed along the longitudinal axis of the chamber. Two walls of the chamber contained glass for the transmission of light. The light source consisted of an incandescent movie projector bulb. By using a slit diaphragm, the chamber was illuminated only by a long narrow beam normal to the precipitator electrodes and coinciding in direction with the central electrical field lines of force along the operating length of the corona discharge electrode. The light reflected by aerosol particles was interrupted by means of a disc chopper mounted directly in

UDC: 621.359.482.015 532

Card 1/2

front of the camera lens and driven by an electric motor. The aerccol was produced using lycopedium powder with 80% of the particles having a diameter from 16 to 20 µ. The corona discharge electrodes consisted of a cylindrical wire with a diameter of 0.3 and 0.9 mm and also of a needle electrode with needle height of 13.5 mm and a distance of 11 mm between needles. The investigations showed that needle electrodes possess better electrical characteristics and make it possible to increase the value of aerosol particle drift velocities in the direction towards the precipitator electrodes. For this reason the application of needle corona discharge electrodes and electrostatic precipitators must be looked upon as one promising method for intensifying the process of electrostatic gas purification. Orig. art. has: 4 figures.

SUB CODE: 13/ SUBM DATE: 21Apr66/ ORIG REF: 003/ OTH REF: 002

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

KOSTIN, V.N.; TKACHENKO, V.M.

Effect of a constant magnetic field on a stationary corona discharge. Zhur. tekh. fiz. 34 no.5:883-887 My'64 (MIRA 17:8)

1. Khar'kovskiy gosudarstvennyy unicersitet imeni Gor'kogc.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

KOSTIN, V.N.; TKACHENKO, V.M.

Effect of a constant magnotic field on a stationary corona discharge. Zhur. tekh. fiz. 34 no.7:1252-1258 Jl '64.

(MIRA 17:8)

1. Khar'kovskiy gosudarstvenny universitet imeni Gor'kogo.

22209655 EPF(n)-2/EWY(1)/EYG(f)/FWG(m) Lip(r)ACC NR: AR6005183 SOURCE CODE: UR/0058/65/000/009/G016/G016 SOURCE: Ref. zh. Fizika, Abs. 96130 AUTHORS: Nekrashevich, I. G.; Tkachenko, V. M.; Urenev, V. I. 46 TITLE: Time scanning of the process of condensation of matter from a plasma cloud in REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, vyp. 1, 544-550 TOPIC TAGS: electric discharge, discharge plasma, vapor condensation, electrode TRANSIATION: The scanning method is used to study the process of emission of matter from electrodes in a condensed discharge, and particularly the change of the composition of the emitting vapor with time. Important experimental data are obtained on the kinetics of formation of the vapor cloud of the electrode material. SUB CODE: 20 <u>Card</u> 1/1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

ACCESSION NR: AP4035701

5/0057/64/034/005/0883/0887

AUTHOR: Kostin, V.N.; Tkachenko, V.M.

TITLE: The influence of a static magnetic field on a stationary corona discharge

SOURCE: Zhurnal tekhnicheksoy fiziki, v.34, no.5, 1964, 883-887

TOPIC TAGS: magnetic field, corona discharge, plasma

ABSTRACT: Current-voltage characteristics and potential distributions were measured for stationary corona discharges between a 0.1 mm diameter tungsten wire and a 23 mm diameter 95 mm long coaxial brass cylinder, in the presence and absence of a 500 Oe longitudinal magnetic field. The current-voltage relations were measured with a microammeter and an electrostatic voltmeter, and also with an oscilloscope. The potential distributions were determined from the characteristics of a molybdenum probe 1 mm in diameter and 50 mm long which was mounted parallel to the axis of the cylinder and could be moved radially. The mobility of the positive ions was also determined, both from the current-voltage characteristic with the aid of Townsend's formula and by a pulse method in which the ion transit time was measured with the oscilloscope. The application of the 500 Oe magnetic field to a positive corona

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ACCESSION NR: AP4035701

discharge in hydrogen at 20 mm Hg was found to shift the current-voltage characteristic by about six volts toward lower voltages. At higher pressures the shift was smaller. The characteristic of a negative corona discharge was shifted in the opposite direction by about the same amount. The electric potential in the inter-electrode region increased when the magnetic field was applied, indicating an increase of the space charge density. A calculation of the potential in the absence of the magnetic field based on a theory published by V.I.Popkov (Otchety\* laboratorii NIO-points. This discrepancy is ascribed both to experimental error and theoretical indequacy. Application of the magnetic field reduced the ion mobility by several percent. The ion mobility in the presence of a magnetic field is calculated from the equations of motion, and it is found that the magnetic field should indeed reduce for valuable advice relating to the choice of methods of measurement." Orig.art.

ASSOCIATION: Khar'kovskiy gosudarstvenny\*y universitet im.A.M.Gorkogo (Khar'kov State University)

SUBMITTED: 20Aug62

SUB CODE: EM

Card 2/2

DATE ACQ: 20May64

NR REF SOV: 006

ENCL: 00

OTHER: 001

ACCESSION MR: AP4042001

8/0057/64/034/007/1252/1258

AUTHOR: Kostin, V.H.; Tkachenko, V.M.

TITLE: Concerning the influence of a constant magnetic field on a stationary corona discharge

SOURCE: Zhumal tekhnicheskoy fiziki, v.34, no.7, 1964, 1252-1258

TOPIC TAUS: corons discharge, electric discharge, magnetic field, argon, air, hydrogen

ABSTRACT: As a continuation of earlier work of the authors (ZhTT 34,No.5,1964), the effect of a magnetic field on a direct current corona discharge between coaxial cylindrical electrodes in hydrogen, argon and air was investigated at pressures from 1 to 70 mm Hg. The discharge took place between a copper cylinder 16, 21 or 27 mm in diameter and 30 or 100 mm long and an 0.1 mm diameter tungsten wire coaxial with it. In some experiments the outer cylindrical electrodes were provided with guard electrodes to eliminate end effects. The magnetic field (up to 2300 Ce) was applied parallel to the axis of the electrodes. The application of a magnetic field to a positive corona in any of the three gases investigated reduced the voltage re-

1/3

ACCESSION NR: AP4042001

quired to Estatain a fixed discharge current. The effect of the field on a negative corona wan of the opposite sign, but difficulties were experienced with the measurements because of the cability of the negative corons. The voltage shift decreased with increasing pressure and discharge current. The negative voltage shift for the positive corona discharge in hydrogen was 40 V at 9 mm Hg and 1400 Oe. The positive shift for the negative corona was somewhat smaller. In air, the negative voltage shift for the positive corona was very small and could be observed only by measuring the change in current at fixed voltage. The positive shift for the negative corona was greater in air than in hydrogen. Both shifts were small in argon. The effect of a 1400 Oc magnetic field on the positive corona in an argon-alcohol mixture such as is used in self-quenching counters was examined at approximately 150 mm Hg. Here the shift was of the opposite sign (positive) to that in the pure gases, and large (100 V). Ion mobilities were calculated with Townsend's formula, and a brief theoretical discussion of the phenomena is given. It is concluded that the increase of current with increasing magnetic field in a positive corona is due to increased ionization by the electrons, and that the decrease of current in a negative corona is due to the decreased electron mobility, which in this case outweighs the increase in the ionization. "In conclusion, we express our gratitude to V.I.Popkov, Corres-

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

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ASSOCIATION: Khar'kovski State University)	y gosudarstve	nny*y univers	itet im.A.M.Goz	kogo (Kharkov	• :
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3/3					

L 01066-67 ACC Nr. AP6008138

SOURCE CODE: UR/0281/66/000/001/0161/0166

AUTHOR: Levitov, V. I. (Moscow); Tkachenko, V. M. (Moscow)

13 B

ORG: none

TITLE: Problem of maximum electric parameters of electric precipitators

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 1, 1966, 161-166

TOPIC TAGS: electrostatic precipitation, air pollution

ABSTRACT: The results are reported of an experimental investigation of electric breakdown of air between these corona-displaying electrodes: (negative) wire-plate, wire between two parallel plates, and coaxial cylinders. Plots of average breakdown voltage vs. wire diameter, for various wire-plate distances, are shown. Two regions are observable: (1) In the first region, the breakdown voltage is independent of the wire diameter; (2) In the second region, with large wire diameters, the breakdown voltage decreases as the wire diameter increases. Voltages up to 180 kv were used. If the fringe effect is eliminated, the breakdown voltage, in the first region, is proportional to the gap length; in other words, the breakdown of a corona gap takes

Card 1/2

UDC: 621.359.484

ACC NR: AP6008138

place at a certain maximun. (about 20 kv/cm) gradient. In practical terms, a 3-mm diameter or thinner wire would have to be recommended for electrostatic precipitators if the maximum field strength is to be used; however, such a thin wire is unacceptable because of its low mechanical strength. Hence, the problem of designing an efficient mechanically strong precipitator remains open. Orig. art. has: 5 figures and 5 formulas.

SUB CODE: 13, 09 / SUBM DATE: 22Oct65 / ORIG REF: 003 / OTH REF: 001

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

S/120/62/000/001/043/061 E192/E382

7.4160

AUTHORS: Kostin, V.N. and Tkachenko, V.M.

TITLE: Operation of photo-cells under pulsed conditions

PERIODICAL: Pribory i tekhnika eksperimenta, no. 1, 1962,

TEXT: The operation of gas-filled photo-cells under pulsed conditions offers new possibilities in photo-electronic automation systems. The pulsed operating regime has therefore been investigated in detail by employing argon-filled photo-cells, type U.G-4 (TsG-4), with O-Cs cathodes and vacuum photo-cells, CUE-4 (STsV-4), with Sb-Cs cathodes (manufactured at Moskovskiy elektrozavod (Moscow Electrical Works)). The spectral characteristics of these cells extend over the visible range so that a 6 V battery-fed lamp was used as the illumination source. The intensity of the illumination was controlled by varying the current. The cell and the lamp were enclosed in a special envelope to eliminate the outside radiation of the cell. The cell was connected to an amplifier head (type ETC(BGS)) through Card 1/%

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

Operation of photo-cells ....

S/120/62/000/001/043/061 E192/E382

a spark gap consisting of a plate and a point. The width of the spark gap could be varied and measured with an error of ± 0.005 mm since the point was mounted on a micrometer screw. The plate was in the form of a solid metal slab. The basic circuit for the investigation is illustrated in Fig. 2, where Nil is the spark gap. The positive terminal of a high-voltage stabilized supply source was connected to the cell through the spark gap and a quenching resistor of 2 MO. The negative terminal of the supply source and the cathode of the photo-cell were grounded. The pulses produced in the circuit were applied to the first amplifier tube through a coupling condenser of 47 pF. The amplifier head was connected to a counter by means of a screened cable. The operation of the photo-cells was investigated by measuring their electrical and photometric characteristics. It is concluded from the investigation that: the number-of-pulses versus voltage characteristics of the photo-cells under pulsed conditions are qualitatively comparable with the voltage-current characteristics under normal DC Card 2/4

Operation of photo-cells ....

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S/120/62/000/001/043/061 E192/E382

conditions;

- 2) the photo-cells can be used photometrically under pulsed conditions since the number of output pulses is linearly dependent on the illumination;
- 5) the absolute sensitivity under pulsed conditions is comparable with that of the DC operation but the threshold sensitivity is at least 20 times higher;
- 4) the pulsed operation has the advantage of the absence of dark currents, a high pulsed voltage, possibility of a direct telemetry transmission and a high breakdown voltage. There are 7 figures.

ASSOCIATION:

Khar'kovskiy gosudarstvennyy universitet

(Khar'kov State University)

SUBMITTED:

June 30, 1961

Card 3/4

1

ACCESSION NR: AP4017599

S/0109/64/009/002/0293/0299

AUTHOR: Tkachenko, V. M.; Kostin, V. N.; Belous, V. V.

TITLE: Effect of a high-frequency electric field on the glow discharge

SOURCE: Radiotekhnika i elektronika, v. 9, no. 2, 1964, 293-299

TOPIC TAGS: glow discharge, glow discharge column, glow discharge column compression, hf glow discharge column compression, glow discharge in air, glow discharge in hydrogen, glow discharge in deuterium

ABSTRACT: A theoretico-experimental investigation of the effect of an axially-symmetric h-f field produced by a set of rings on the glow discharge for various field frequencies, discharge currents, gases, and gas pressures is reported. A formula is developed for the diameter of the compressed-discharge column which depends on the field frequency, electron temperature, discharge-tube radius, and the frequency of collisions between ions and gas molecules (i.e., ion temperature

Card 1/2

ACCESSION NR: AP4017599

and gas pressure). Experiments conducted with a 40-cm-long 3-cm-diameter gas-discharge tube supplied with a d-c 0-6-kv voltage and equipped with a movable (0-300 v) inside probe and 5 outside rings (10-230-kc) corroborated the validity of the formula. The variation of ion and electron currents, space potential, temperature and concentration of electrons depending on the h-f field were determined from the probe characteristics. Air, hydrogen, and deuterium at 0.1-4 torr were tested. Orig. art. has: 4 figures and 17 formulas.

ASSOCIATION: Khar'kovskiy gosudarstvenny\*y universitet (Khar'kov State University)

SUBMITTED: 01Dec62

DATE ACQ: 18Mar64

ENGL: 00

SUB CODE: GE, PH

NO REF SOV: 008

OTHER: 000

Card 2/2

TKACHENKO V W

New types of electrodrainage and methods for calculating them.

Ispel', gaza v nar. khoz. nc.2:167-178 '63. (MIRA 18:9)

l. Laboratoriya avtomatizatsii i telemekhanizatsii Saratovskogo gosudarstvennogo neuchno-issledovateliskogo i proyektnogo instituta oo ispolisovaniyu gaza v narodnom khozyaystve.

TKACHENKO, V.N.

Unit for modeling practical problems concerning the cathodic protection of underground metal structures from eddy currents. Caz. delo no.5:23-27 [65]. (MIRA 18:6)

1. Saratovskiy gosudarstvennyy haushnosissledovateliskiy i proyektnyy institut po ispolizovaniya gasa v narodnom khozyaystva.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

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* 10 m · manua * • Astitital	* 1 * 1 * 11/4/	1 Ja 166	(UDA 19:2)

# Modeling the system of the "track-network-ground-network of underground structures." Gaz. dele no.6:24-28 '64. 1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut po ispol'zovaniyu gaza v narodnom khozyaystve.

ACCESSION NR: AR3000144

s/0272/63/000/005/0130/0130

SOURCE: RZh. Metrologiya i izmeritel'naya tekhnika, Abs. 5.32.831

AUTHOR: Tkachenko, V. N.; Budilenko, L. F.

TITLE: High-power electrical drainage utilizing semiconductors

CITED SOURCE: Gaz. prom-st', no. 7, 1962, 46-47

TOPIC TAGS: electrical drainage; semiconductors; silicon valves.

TRANSLATION: A communication concerning experimental units, developed by GiproNIIGaz and built by the Saratov "Cazpribor" plant, of a high-power drainage utilizing silicon rectifiers. The drainage system is designed for a rated current of 500 amperes and permissible short-duration overloads of up to 800 amperes; the permissible back voltage is 100 volts. The drainage has undergone successful operation trials. Orig. art. has

Card 1/2

ACCESSION	NR: AR3000	)144			eragongo en la seu la seculta de la companya de la	 
3 illustra	tions					
DATE ACQ:	21мау63	ENCL: 00	\$	SUB CODE:	00	•
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KOSTIN, V.N.; TKACHENKO, V.M.

Performance of photeelectric cells under pulsed conditions.
Prib.i tekh.eksp. 7 no.1:173-176 Ja-F '62. (MIRA 15:3)

1. Khar'kovskiy gosudarstvennyy universitet.
(Photoelectric cells)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

TKACHENKO, V.N.; BUDILENKO, L.F.

Powerful electric drainage with semiconductors. Gaz. proc. 7 no.2:
46-47 162.

(Ulea 17:16)

的大型性的影片,这种是一种,我们就是一种,我们就是一个人,这个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

TKACHENKO, V.M.; KOSTIN, V.N.; BELOUS, V.V.

Effect of a high-frequency electric field on a glow-discharge. Radiotekh. i elektron. 9 no.2:293-299 F '64. (MIRA 17:3)

1. Radiofizicheskiy fakul'tet Khar'kovskogo gosudarstvennogo universiteta im. A.M.Gor'kogo.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

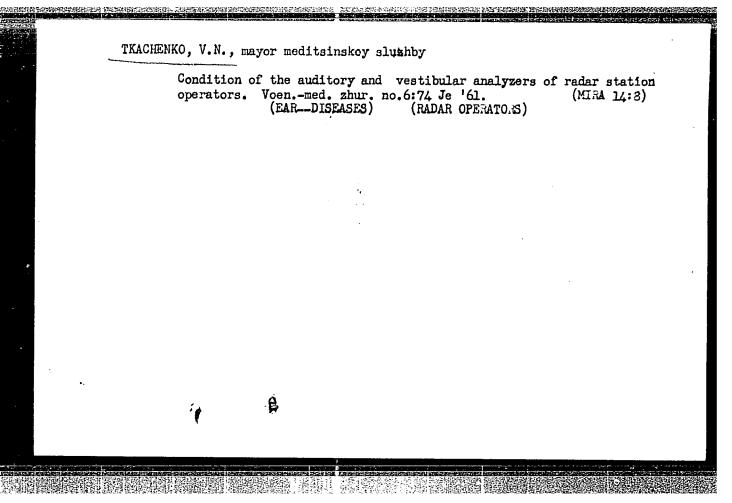
Experience in planning the joint electric corrosion protection of urban underground metallic installations. Gaz.prom. 6 no.8:43-46 '61. (MIRA 14:10)

(Pipelines--Cathodic protection)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

	Comparison of the second of th
	Cementing plates of press molds. Ogneupory 26 no.1:43-44 '61. (EIPA 14:2)
	1. Pervoural skiy dinasovy/ zavod. (Cementation (Metallurgy))
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	TKACHENKO, V. N.	
•	"Tubes for Quartz-Mercury-Arc Lamps Used	for Irradiating Palatine Tonsils".
	Voyenno Meditsinskiy Zhurnal, No. 4, 196	2
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TKACHENKO, V. N. (Major of the Medical Service)

"The Condition of the Auditory and Vestibular Analyzers in Radar Station Operators."

Voyenno-Meditsinskiy Zhurnal, No.6, 1961: 74-82

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

BILYASHEVEKIY, M.M. [Biliashevs'kyi, M.M.], doktor tekhn.mauk; OLIYNIK,
O.Ya. [Oliinyk, O.IA.], kand.tokhn.nauk; TKACHENKO, V.O., inzh.

Testing the work of a seepage preventing curtain of a reservoir shore.
Visti Inst.gidrol.i gidr.AN URSR 18:93-102 '61. (MIRA 15:3)

(Seepage) (Reservoirs)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

TKACHENKO, V.P., inzhener.

[Construction and servicing of mechanical looms with underpick motion] Ustroistvo i obsluzhivanie mekhanicheskikh tkatskikh stankov (s nizhnim boem). Moskva, Gos. nauchno-tekhn. izd-vo legkoi promyshl., 1949. 146 p. (MLRA 7:7) (Looms)

TKACHENKO, Vladimir Stepanovich; SHLEPINA, M.M., redaktor; RAKOV, S.I., tekhnicheskiy redaktor

[A shepherd's experience] Iz opyta chabana. [Moskva] Izd-vo VTeSPS Profizdat, 1956. 38 p. (MLRA 10:3)

1. Ghaban ordens "Znak Pocheta" plemennogo ovtsesovkhoza "Krasnyy chaban", Kalanchakskogo rayona, Khersonskoy oblasti. (Sheep)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

BILYK, G.I. [Bilyk, H.I.]; TKACHENKO, V.S.

Grindelia squarrosa (Pursh.) Dunal. in the floodlands of the Northern Donets River. Ukr. bot. zhur. 20 no.4:108-110 '63. (MIRA 17:4)

1. Institut botaniki AN UkrSSR, otdel geobotaniki.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

TKA	CHENKO, V.S.			
	Reorganize pro	duction records and	i control. Sakh.	prom. 28 no.7:6 '54. (MLRA 8:1)
	l. Smelyanskiy (Sugar i	sakharnyy zavod. ndustry)		<b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

TITORENKO, N.Ye., kand.tekhn.nauk; SLAVIN, V.A., inzh.; TKACHENKO, V.S., inzh.

In support of very rapid utilization of the planned capacities of large-panel housing construction plants. Transp. stroi. 11 no.10: 34-38 0 '61. (MIRA 14:10)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

## TKACHENKO, V.S. Chemical removal of scale from juice heaters. Sakb. prom. 36 no.7:54-55 Jl '62. (MIRA 17:1) 1. Ust'-Labinskiy sakharnyy zavod.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

RUBANIK, V.G.; KORNEYCHIK, Zh.N.; MEL'NIK, A.F.; SOLONINOVA, I.N.; ZHERONKINA, T.A.; KALUGIN, E.S.; TKACHENKO, V.S.; BESSCHETNOV, P.P.; PROTASOV, A.N.; PARAVYAN, A.V., doktor biol. nauk, otv. red.

[List of trees and shrubs recommended for landscaping in populated places of Kazakhstan] Spisok dereviev i kustarni-kov, rekomenduemykh dlia ozeleneniia naselennykh punktov Kazakhstana. Alma-Ata, Izd-vo AN KazSSR, 1963. 85 p.

(MIRA 17:3)

1. Akademiya nauk Kazakhskoy SSR. Institut botaniki. 2. Glavnoye upravleniya lesnogo khozyaystva i okhrany lesa Soveta Ministrov Kazakhskoy SSR (for Tkachenko). 3. Kazakhskiy sel'skokhozyaystvennyy institut (for Besschetnov, Protasov).

TKACHENKO, V.V., tekhnik

Roller for performing roofing work in winter time. Transp. stroil 15 no.3:50 Mr '65. (MIRA 18:11)

NAME OF TAXABLE PARTY OF THE PROPERTY OF THE P

TKACHENKO, V.V., kand. tekhn. nauk

Quality, reliability, and durability of industrial articles. Standartizatsiia 29 no.5:1-3 My '65. (MIRA 19:1)

1. Zamestitel' predsedatelya Gosudarstvennogo komiteta standartov, mer i izmeritel'nykh priborov SSSR.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

TKACHENKO, V. V.

Machinery - Standards

Standardization of Amchine building. Vest. mash. 31, No. 12, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1959, Uncl.

### On the committee of standards, measures, and measuring instruments. Standartizatsiia no.5:3-7 S-0 '54'. (MIRA 8:2) (Weights and measure—Standards)(Measuring instruments—Standards) (Standartization)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

\$ <i>}</i>	TKACHENKO, V.V., kandidat tekhnicheskikh nauk.  The Leningrad conference on standardization and normalization in machine construction. Standartizatsiia no.3:63-67 My-Je '54. (MLRA 7:6)						
	1. Up:	ravleniye po	standartizatsii	. (Machinery	Standards)		
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		· · · · · · · · · · · · · · · · · · ·					

TEACHENKO, v.v., kandidat tekhnicheskikh nauk.

Tasks of standardization in the sixth five-year plan. Standartizatsiia no.2:3-6 Mr.ap '56. (Mina 9:5)

(Agricultural machinery-Standards)

TKACHENKO, V.V., kandidat tekhnicheskikh nauk.

General introduction of preferred numbers. Standartizateiia no.4:3-6 Jl-Ag \*56. (MLRA 9:11)

1 Komitet standartov, mer i izmeritel'nykh priborov. (Simplification in industry) (Standardization)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

## TKACHENKO, V.

The Soviet socialist system is truly that of the people

1. Rus ia - Pol. & Govt. - 1917 -

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

Tkachenko, V.

Technical progress and standardization. p. 121. NORMALISACE. (Urad pro normalisa) Praha. Vol. 5, no. 6, June 1956.

Source: EEAL IC Vol. 5, No. 10 Oct. 1956

TKACHENKO V.V. Increasing Labor Productivity in Machine Building Moscow, 1957, 511pp. 168 This collection contains articles presenting a comparative technical and economic analysis of the most effective methods and industrial processes for obtaining high labor productivity in all stages of machine building. It is claimed that the output of the heavy industries may be stepped up by further standardization of machine tools, materials, and production methods, as well as by drawing on umused potentials. These articles cover all stages of planning and production, as performed in most of the modern plants in the USSR. On the basis of actual experience, some new methods and approaches are discussed. The topics are listed in the TABLE OF CONTENTS: Foreword Page Part I. General Prerequisites for Increasing Labor Productivity 3 Yampol'skiy, S. M. Utilization of production reserves Zabelin, B. M. Specialization and cooperation in industry 7 Tkachenko, V. V. Standardization of machinery types and 25 machine parts, and the methods of fabrication Gokun, V. B. Selection of production machinery 43 Card 25 Charnko, D. V. Some features of production-line technology 56 91

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

INACHENKE,

AUTHOR: Tkachenko, V.V., Candidate of Technical Sciences

TITLE: Statewide Standardization in 1957 (Gosudarstvennaya standarti-

zatsiya v 1957 godu)

PERIODICAL: Standartizatsiya, # 1, Jan-Feb 1957, p 3-8 (USSR)

ABSTRACT: During 1956, prerequisits were created for production of standard machine parts in specialized plants. The standard

> "FOCT 8032-56" for preference number series (statistical mathematics) was approved. This standard largely pre-determines standardization of parameters and, particularly, of dimensions. For the first time standards have been established in the USSR for bent steel profiles and for reduced-weight rolled steel profiles. Altogether, 780 standards were approved. As examples

of these the following are mentioned: parameters of hydraulic presses and gear-shaping machine tools, steel grades, synthetic solidol (lubricant), consumer standards for coal, forging

equipment. Together with those in force before 1956, there are now 1500 established standards. During 1955-56, a number of ministries for machinebuilding commissioned the leading research and design institutions of the respective branches as basic centers for standardization, regardless of their admini-

Card 1/4 strative affiliations. The following items are planned for

Statewide Standardization in 1957

28-1-1/42

standardization in 1957: high-productive steel stamping machines, in particular the types and the basic parameters of dual-crank cold stamping presses and automatic multi-spindle sheet-stamping presses; hydraulic presses for three-dimensional stamping; parameters of sand-preparing and cleaning equipment as mixing mills, sand breakers, shot-peening heads, as well as characteristics for die-castings (this is the task for the Research Institute for Foundry Machinery); automobile engine series with similar dimensions; series of agricultural machines corresponding to the conditions of climate and soil in the various regions of the USSR, including hydraulic mechanisms used to operate these machines from tractors (All-Union standard); assortments of round, square, strip, hexagon, band, and rivet steel, and tubes of all kinds; dimension tolerances for cold-stamped and bent parts, in order to obtain maximum metal economy in production of high-precision parts (these standards will complete the already existing system of tolerances for cold forgings and stampings); rubber sealers, which will replace felt; revision of old and development of new standards for machine tool parts, as spindle noses, centers, square magnetic and electromagnetic plates, generally applicable fixtures; drop-forging dies and parts of cold stamping dies for production of afore-

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

Statewide Standardization in 1957

28-1-1/42

mentioned machine tool parts; chemical and oil industry apparatus and vessel capacity and dimensions; parts of drilling equipment; hydraulic drives for roadbuilding machinery; revision of spline and key connection standards to conform to international standards; revision of standards for fuels of high-speed diesel engines in order to improve the quality and to reduce their corrosiveness; new grades of typographic and offset paper; new and higher requirements for radio sets and basic requirements for television sets; standards for new synthetic fibers, as "anid", cuprammonium rayon and caprone rayon; automation equipment such as radio-measuring instruments, lamp voltmeters, signal generators, input, output and connection characteristics of "AVC" automatic devices, to simplify and extend their use in various technological systems; resistance thermometers; radiation pyrometers; liquid and gas meters; scales; instrument parts, such as springs, jewels, small gears; standard quality test methods. The preference number series will be widely applied in 1957 in machinebuilding as well as in other industries, and this will serve to start coordination of different product characteristics and dimensions, with resulting interchangeability of parts, and components produced with standard fits and tolerances. The author emphasizes that nationwide standardization can only be

Card 3/4

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

Statewide Standardization in 1957

28-1-1/42

effective if carried out by administrative institutions and industrial plants, and states that some ministries underestimate
the importance of standardization. One such example is the
Ministry for Electrical Engineering, where the nomenclature of
products and parts produced by the plants has reached tremendous
numbers. The contacts abroad and the participation in interwork planned for 1957 by the International Standard Organization
(ISO) Technical Committees is cited. With the reorganized adbe further intensified, as one of the major bonds between

AVAILABLE:

Library of Congress

Card 4/4

TKAChiEnko, Cill

28-3-1/33

AUTHOR:

Tkachenko, V.V., Candidate of Technical Sciences

TITLE:

Reorganization of the Industry and Building Administration, and the Tasks in the Field of Standardization (Perestroyka upravleniya promyshlennost'yu i stroitel'stvom i zadachi v oblasti standartizatsii)

PERIODICAL:

Standartizatsiya, 1957, # 3, May-June, p 3-6 (USSR)

ABSTRACT:

The article deals with the outlines of the future work of standardizing organizations after the functions of the central state ministries have been passed over to the Sovnarkhozes of the Republics, in accordance with the decisions of the 7th session of the Supreme Soviet. The tasks of the Sovnarkhozes and of the central organizations are broadly discussed and the importance of interchangeability is stressed. In the past years, the leading research institutes, plants and designing bureaus of separate branches had the function of basic standardization. Now, this will have to be carried on, and the importance of the Sovnarkhozes will increase. This does not mean that the plant standardizing sections have to be closed down, as some shortsighted administrators are doing. The de-

Card 1/3

28-3-1/33

Reorganization of the Industry and Building Administration, and the Tasks in the Field of Standardization

> partments for standardization and technical specifications of each republic's Gosplans will coordinate and direct the standardization work of their Sovnarkhozes, and they will scrutinize and develop for approval such technical specifications which are particularly important and obligatory for all enterprises within the scope of a Sovnarkhoz. The Central Soviet of the Scientific-Technical Societies decided to activate the work of all branch Societies and to extend their participation in setting up and discussing plans and projects of standards. The Committee of Standards, Measures and Measuring Devices which leads in standardization matters - will have to extend its participation in coordinating, directing, and particularly in establishing standardization methods. It will have to take over the planning and, partly, the development of interbranch norms (for general machinebuilding) for parts and components which are common to many machinebuilding branches. The multilateral contacts of the Committee with the Sovnarkhozes, institutes and enterprises obviously will complicate the work, but will benefit the results.

Card 2/3

Reorganization of the Industry and Building Administration, and the Tasks in the Field of Standardization

ASSOCIATION: Committee of Standards, Measures and Measuring Devices (Komitet standartov, mer i izmeritel'nykh priborov)

AVAILABLE: Library of Congress

Card 3/3

TRACHEMICO, VV

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USSR. Komitet standartov, mer i izmeritel'nykh priborov

Materialy 2-go i 3-go soveshchaniy po standartizdatsii i normalizatsii v mashinostroyenii (Materials of the Second [Dec. 1956] and Third [May 1957] Conferences on Standardization and Normalization in Machine Building) Moscow, Standartgiz, 1958. 135 p. 2,000 copies printed.

Resp. Ed.: Krynkin, K.M.; Ed. of Publishing House: Rozova, L.V.; Tech. Ed.: Matvey-eva, A.Ye.

PURPOSE: This collection of articles is intended for designers and engineering specialists.

COVERAGE: The book contains abbreviated versions of lectures given during the 2nd and 3rd Scientific Methodology Conferences held in December 1956 and May 1957 respectively. The first part of the book reviews the significance of introducing into Soviet engineering practices a system of preferred numbers based on recommendation of the International Standards Organization (ISO). The second part of the book generalizes on the experimental studies of standardization and unification conducted by various machinery-manufacturing branches

Card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755920011-0"

Materials of the Second (Cont.)  of Soviet industry. No personalities are mentioned. There are no refere TABLE OF CONTENTS:  From the Publisher	nces.
PART I. SERIES OF THE	2
PART I. SERIES OF PREFERRED NUMBERS AND THEIR IMPORT- ANCE IN ESTABLISHING RATIONAL PARAMETERS AND DIMENSIONS OF MACHINES, EQUIPMENT, AND TOOLS Tkachenko, V.V., Candidate of Technical Sciences. Sets of Preferred numbers Sum-Shik, M.R., Engineer, April 1988	
Machine-tool Manufacturing	5
Vaksman, A.V., Candidate of Technical Sciences. New Dimensional Series of Milling Gutters Established in Conformance With Number of Machine-	13
PART II. EXPERIMENTS WITH STANDARDIZATION AND UNIFICATION OF BASIC PARAMETERS OF MACHINES AND EQUIPMENT	27

KOKHTEV, Aleksandr Andreyevich; RYBKIN, A.P., prof., retsenzent; TKACHENKO,
V.V., kand. tekhn. nauk, retsenzent; HUSEVICH, I.M., inzh., red.;

MODEL!, B.I. tekhn. red.

[Ingineering and economic prinicples of standardization in the machinery industry] Tekhniko-ekonomicheekie printelpy standartizatisi v mashinatroenii, Moskva, Gos, nauchno-tekhn. izd-vo reashinostroit. lit-ry, 1958. 417 p. (MIRA 11:7)

(Machinery industry-Standards)

SOV/28-58-6-1/34

· AUTHOR:

Tkachenko, V.V., Candidate of Technical Sciences

TITLE:

Standardization and Normalization Should Be Used for the Seven-Year Plan (Standartizatsiyu i nor-

malizatsiyu - na sluzhbu semiletnemu planu)

PERIODICAL:

Standartizatsiya, 1958, Nr 6, pp 3-7 (USSR)

ABSTRACT:

The author states that the main task is to utilize all the advantages and effectiveness of standardization for the further development of new techniques in various branches of industry and for introducing complex mechanization and automation into new fields. He stresses the necessity of a speedy working out of standards for new grades of steels and alloys, synthetic materials, plastic, high-quality fuels and oils; in particular those used in supersonic aircraft engines, machinery and equipment for power engin-eering, machine-building and chemical industries, radioparts, electronic and semi-conductor devices,

Card 1/2

SOV/28-58-6-1/34

Standardization and Normalization Should Be Used for the Seven-Year Plan

automatic registering devices, etc. During the next three years, unified standards for machine parts and units used in machine building, must be worked out. In order to accomplish this task, the VNIINMASH (All-Union Scientific-Research Institute for Normalization in Machine Building) was established in 1958. The work of co-ordinating and planning research on standardization and normalization will be carried out by the Committee of Standards, Measures and Measuring Devices of the USSR Council of Ministers.

ASSOCIATION:

Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures and Measuring Devices)

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### Tkacenko, V.

Standard zation and normalization in the service of the Seven-Year Plan. p. 110.

STANDARDIZARIA. Comisiumea de Standardisaro. Eucuresti, Ausania Vol. 11, no. 3, Mar. 1959

Monthly List of Sast European Accessions (STAI) LC, Vol. 8, no. 9, Sept. 1959 Uncl.

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TKACHENKO, V.V., otv.red.; MATVEYEVA, A.Ye., tekhn.red.

[Catalog of State standards for 1959; in effect as of January 1, 1959] Ukazatel' gosudarstvennykh standartov 1959 (po sostoianiin na 1/1 1959 g.). Izd.ofitsial'noe. Moskva, Standartgiz., 1959. 520 p. (MIRA 12:5)

1. Russia (1923- U.S.S.R.) Vsesoyuznyy komitet standartov. (Standards, Engineering)

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TKACHENKO, V.V.

28(5)

SOV/28-59-12-2/27

AUTHOR:

None given

TITLE:

Seminar "The Normalization" and Specialization on

Parts in Machine-Building".

PERIODICAL:

Standartizatsiya, 1959, Nr 12, pp 7-15 (USSR)

ABSTRACT:

The seminar was organized by the Moskovskiy dom nauchno-tekhnicheskoy propagandy im. Dzerzhinskogo (The Moscow House of Scientific and Technical Propaganda imeni Dzerzhinskiy) and Komitet standartov, mer i izmeritel'nykh priborov (The Committee of Standards, Measures and Measuring Devices). The purpose was

to generalize the experience of sovnarkhozes, industry, and research institutes in specialization and cooperation in the machine-building industry and to convey this experience to the industry technicians. More than 300 delegates from organizations and plants were present and 18 reports were read on the problems of spe-

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cialization and cooperation of the plants and the nor-

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Seminar "The Normalization and Specialization on Parts in Machine-

malization of the most important machine component Building".

malization of the most important machine component units and parts. The article briefly gives the contents of several reports. In the report by V.V. tents of several reports of Standardization and Northachenko "On the Part of Specialization and Traction in the Progress of Specialization and malization in the Progress of Specialization and Cooperation in the Industry", it was said that about 250 standards for types and basic parameters of machines apparatus and instruments are already in chines, apparatus and instruments are already in cnines, apparatus and instruments are already in force and 200 more will be worked out in the course force and 200 more will be worked out in the oreunify the machine components and create the prerequisites for the organization of specialized production. There exist three basic normalization trends: 1) General normalization i.e. of parts and component units of general use and of technologic equipment united of Benefal use and of ceomiotosic equipment common for different industry branches; 2) Branch normalization, i.e. of equipment specific for separate industry branches; and 3) Plant (local) normalization

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limiting the number of types, dimensions and technical documents within single plants. Much work is yet ahead in the standardization of production process control systems, units and measuring components (pickups, transmitters, and servomechanisms). The extensive use of radio and electronic parts requires standardization of semiconductor diodes and triodes, resistances, small synthetic material capacitors, and miniature electronic tubes. Centralized production can be recommended for the following: 1) Torque transmitting parts and units (reductors, gears, keys, shafts, clutches, etc.); 2) Fasteners; 3) Pipe fittings, hydraulic and pneumatic drives and lubrication equipment, 4) Regulating equipment (brakes, springs); 5) Electric switches, protective devices, starters; 6) Radio equipment (capacitors, resistors, panels, transformers,

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electrovacuum tubes, etc.); 7) Instrument parts beginning with sensitive elements and ending with casings. The report by L.V. Kuznetsov, "The Tasks and the Most Important Work in the Field of Normalization of Machine Parts and Component Units", included the following facts. The specialization level in machine-building is still low. Only the most widely used standard tools are produced basically at specialized plants, but attachments, dies and other technological equipment are produced by every machine-building plant. The making of clutches, bearings and other common parts is not specialized. The goals set by the Seven-Year-Plan require standardized technical documents - "normali" they are a prerequisite of specialized production and cooperation. The development of the "mashinostroitel"nyye normali" (or "MN") (machine-building standards) was organized in 1958 for the first time by the Committee

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AUTHOR:

Tkachenko, V. V.

TITLE:

Trend of Standardization in 1961

PERIODICAL:

Standartizatsiya, 1960, No. 11, pp. 3-6

TEXT: In 1961 more than 400 scientific research institutes, design offices, and establishments will participate in standardization which is directed toward the solution of the most important tasks of national economy, set by the June (1959) and July (1960) Plenums of the Central Committee of the CPSU. More than 1400 items, including those spreading into 1961, are contained in the standardization plan of 1961 approved by the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Committee on Standards, Measures, and Measuring Instruments at the Council of Ministers USSR). More than 65% of the items deal with the introduction of a new technology, and only 500 with the checkup of valid standards. More than half of them refer to machine and instrument construction, the main problem being the elaboration of standard parameters for machines, and other equipment. An important task devolves upon the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii Card 1/2

Trend of Standardization in 1961

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(Central Scientific Research Institute of Ferrous Metallurgy). Demands made upon the following institutions are dealt with next: Ukrainskiy trubnyy institut (Ukrainian Institute for Tubes), Institute Giprotsvetmetobrabotka, Instituty Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii (Institutes of the State Committee on Chemistry of the Council of Ministers USSR), NIIKhIMMASh (Nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya (Scientific Research Institute of Chemical Machinery)), UkrNIIKhIMMASh (Ukrainskiy nauchno-issledovatel'skiy institut khimicheskogo mashinostroyeniya (Ukrainian Scientific Research Institute of Chemical Machinery)), Giproneftemash, Byuro vzaimozamenyayemosti v metalloobrabatyvayushchey promyshlennosti (Bureau for the Exchange of Experience in the Metalworking Industry), NIIteplopribor, Tsentral nyy nauchno-issledovatel skiy institut kompleksnoy avtomatizatsii (Central Scientific Research Institute of Comprehensive Automation) and its SKBSN.

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[Index of state standards as of January 1, 1962]Ukazatel' gosudarstvennykh standartov, 1962. (po sostoianiiu na 1/1 1962 g.)
Izd. ofitsial'noe. Moskva, 1962. 575 p. (MIRA 15:12)

(Standardization)

HINGS NOT THE PROBLEMS OF THE

